

DO NOT FILL VOID W/CONCRETE  
OR GROUT AROUND THE TOP  
HALF OF THE CONNECTOR

5.

MANHOLE BASE SHAPED  
TO MATCH PIPE I.D. WITH  
NON-SHRINK GROUT

3. 5.

SEE DETAIL "A"

MANHOLE BASE

RESILIENT FLEXIBLE  
CONNECTOR

2.

PIPE

DRAIN ROCK

## SECTION - PIPE CONNECTION

MANHOLE BASE SHAPED  
TO MATCH PIPE I.D. WITH  
NON-SHRINK GROUT

3. 5.

CORED OR FORMED MANHOLE  
OPENING PER MANUFACTURER'S  
REQUIREMENTS

4.

PIPE

DO NOT FILL VOID W/CONCRETE  
OR GROUT AROUND FULL  
CIRCUMFERENCE OF CONNECTOR

5.

RESILIENT FLEXIBLE  
CONNECTOR

2.

## DETAIL "A"

PRE-CAST MANHOLE  
BASE

### NOTES:

1. AN AGENCY-APPROVED FORM OF SEAL OR WATER STOP IS REQUIRED ON ALL SANITARY SEWER AND STORM DRAIN INSTALLATIONS AND IN OTHER APPLICATIONS AS REQUIRED BY THE CITY TO PROVIDE A WATERTIGHT CONNECTION.
2. A RESILIENT FLEXIBLE CONNECTOR PER ASTM C 923-89 MAY BE USED AT THE MANHOLE/PIPE CONNECTION TO SATISFY THE REQUIREMENTS OF NOTE 1. FOR PRE-CAST CONCRETE STRUCTURES, THE RESILIENT FLEXIBLE CONNECTOR SHALL BE AN "A-LOK" TYPE PIPE-TO-MANHOLE CONNECTOR OR APPROVED EQUAL. FOR CAST-IN-PLACE STRUCTURES, THE RESILIENT FLEXIBLE CONNECTOR SHALL BE A "KOR-N-SEAL 1 - TOGGLE KORBAND" TYPE PIPE-TO-MANHOLE CONNECTOR OR APPROVED EQUAL.
3. NON-SHRINK GROUT SHALL HAVE THE FOLLOWING CHARACTERISTICS:  
3000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD AND SLUMP AT 1 TO 4 INCHES. ALL MATERIAL SHALL CONFORM TO SSPWC SECTION 202.
4. RESILIENT FLEXIBLE CONNECTOR MAY BE USED IN A PRE-CAST OR CAST-IN-PLACE MANHOLE AND INSTALLED IN A FORMED OR CORED MANHOLE OPENING. IN EACH CASE, THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. NO GROUT OR CONCRETE SHALL BE PLACED AROUND THE CONNECTOR ON THE OUTSIDE OF THE MANHOLE, NOR AROUND THE TOP HALF OF THE CONNECTOR ON THE INSIDE OF THE MANHOLE, WHERE THE PIPE CONNECTS TO THE MANHOLE BASE. FOR PIPE CONNECTIONS ABOVE THE MANHOLE BASE, NO GROUT OR CONCRETE SHALL BE PLACED AROUND NEITHER THE INSIDE NOR THE OUTSIDE OF THE ENTIRE CIRCUMFERENCE OF THE CONNECTOR.

| NO.         | REVISION | DATE | STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION          | SECTION     | RENO        |
|-------------|----------|------|---|-------------|-------------|
|             |          |      | <b>RESILIENT FLEXIBLE PIPE<br/>CONNECTOR TO MANHOLE</b> | DRAWING NO. | R-223 (311) |
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